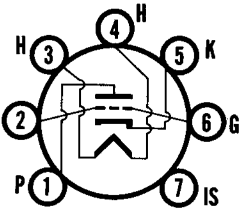



# SYLVANIA TYPES 6GW5 4GW5 3GW5 2GW5




7GK

## MECHANICAL DATA

| | |
|---|---|
| Bulb | T-5½ |
| Base | E7-1, Miniature Button 7-Pin |
| Outline | 5-2 |
| Basing | 7GK |
| Cathode | Coated Unipotential |
| Mounting Position | Any |

## ELECTRICAL DATA

**HEATER CHARACTERISTICS**

| Heater Operation | 2GW5 Series | 3GW5 Series | 4GW5 Series | 6GW5 Parallel |
|---|---|---|---|---|
| Heater Voltage | 2.45 | 3.0 | 4.2 | 6.3 Volts |
| Heater Current | 600 | 450 | 300 | 190 Ma |
| Heater Warm-up Time | 11 | 11 | 11 | — Sec. |

Maximum Heater-Cathode Voltage

| | |
|---|---|
| Heater Negative with Respect to Cathode — Total D C and Peak | 100 Volts |
| Heater Positive with Respect to Cathode — Total D C and Peak | 100 Volts |

**DIRECT INTERELECTRODE CAPACITANCES (Shielded)**

| | |
|---|---|
| Grid to Plate | 0.60 μμf |
| Input: g to (h+k+I.S.+E.S.) | 5.5 μμf |
| Output: p to (h+k+I.S.+E.S.) | 4.0 μμf |
| Plate to Cathode | .055 μμf |

**RATINGS (Design Maximum Values)**

| | |
|---|---|
| Plate Voltage | 200 Volts Max. |
| Plate Dissipation | 2.5 Watts Max. |
| D C Cathode Current | 25 Ma Max. |
| Negative Grid Voltage | 50 Volts Max. |
| Grid Circuit Resistance (Self Bias) | 1.0 Megohms Max. |

Control grid to cathode spacing on this type is of such close magnitude as to preclude the use of voltage between these elements of more than 30 volts D C or peak A C in commercial tube checkers and shorts indicating devices particularly where mechanical excitation of the tube is utilized.

**CHARACTERISTICS AND TYPICAL OPERATION**

**Class A1 Amplifier**

| | |
|---|---|
| Plate Voltage | 135 Volts |
| Grid Voltage | −1.0 Volts |
| Plate Current | 12.5 Ma |
| Transconductance | 15,000 μmhos |
| Amplification Factor | 70 |
| Plate Resistance (approx.) | 5800 Ohms |
| Ec for Gm = 150 μmhos (approx.) | −5.0 Volts |
| Ec for Gm = 1500 μmhos (approx.) | −2.6 Volts |

## APPLICATION

The Sylvania Types 2GW5, 3GW5, 4GW5, and 6GW5 are frame grid gain controlled triodes designed for use as VHF RF amplifiers at a B+ of 135 volts. Features of the design include: A partial shield between the grid and plate which lowers the capacitance between these two elements and promotes ease of neutralization and low input capacitance. Higher input impedance and reduced grid inductance is assured by virtue of dual grid leads.